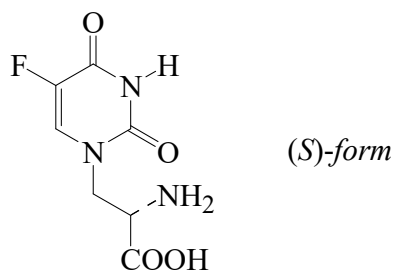




>>Entry Name: α -Amino-5-fluoro-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinepropanoic acid, 9Cl

Synonym(s): 1-(2-Amino-2-carboxyethyl)-5-fluoropyrimidine-2,4-dione. 5-Fluorowillardiine



Related CAS Registry Numbers(s): 165458-87-7

Molecular Formula: $C_7H_8FN_3O_4$

Molecular Weight: 217.156

Accurate Mass: 217.049885

Percentage Composition: C 38.72%; H 3.71%; F 8.75%; N 19.35%; O 29.47%

Biological Use/Importance: Ionotropic glutamate (AMPA) receptor agonist

>>Variant: (S)-form

CAS Registry Number: 140187-23-1

Molecular Formula: $C_7H_8FN_3O_4$

Molecular Weight: 217.156

Accurate Mass: 217.049885

Percentage Composition: C 38.72%; H 3.71%; F 8.75%; N 19.35%; O 29.47%

Physical Description: Cryst. (H_2O)

Melting Point: Mp 221-222 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{25} -28.2$ (c, 1.24 in 6M HCl)

References:

Hawkins, L.M. *et al.*, *Br. J. Pharmacol.*, 1995, **116**, 2033-2039, (*pharmacol*)

Larm, J.A. *et al.*, *Eur. J. Pharmacol.*, 1996, **314**, 249-254, (*pharmacol*)

Jane, D.E. *et al.*, *J. Med. Chem.*, 1997, **40**, 3645-3650, (*synth, pmr, cmr, pharmacol*)